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**FIG. 1 Wavelet Tiling of an N-Point Digital t-f Space**

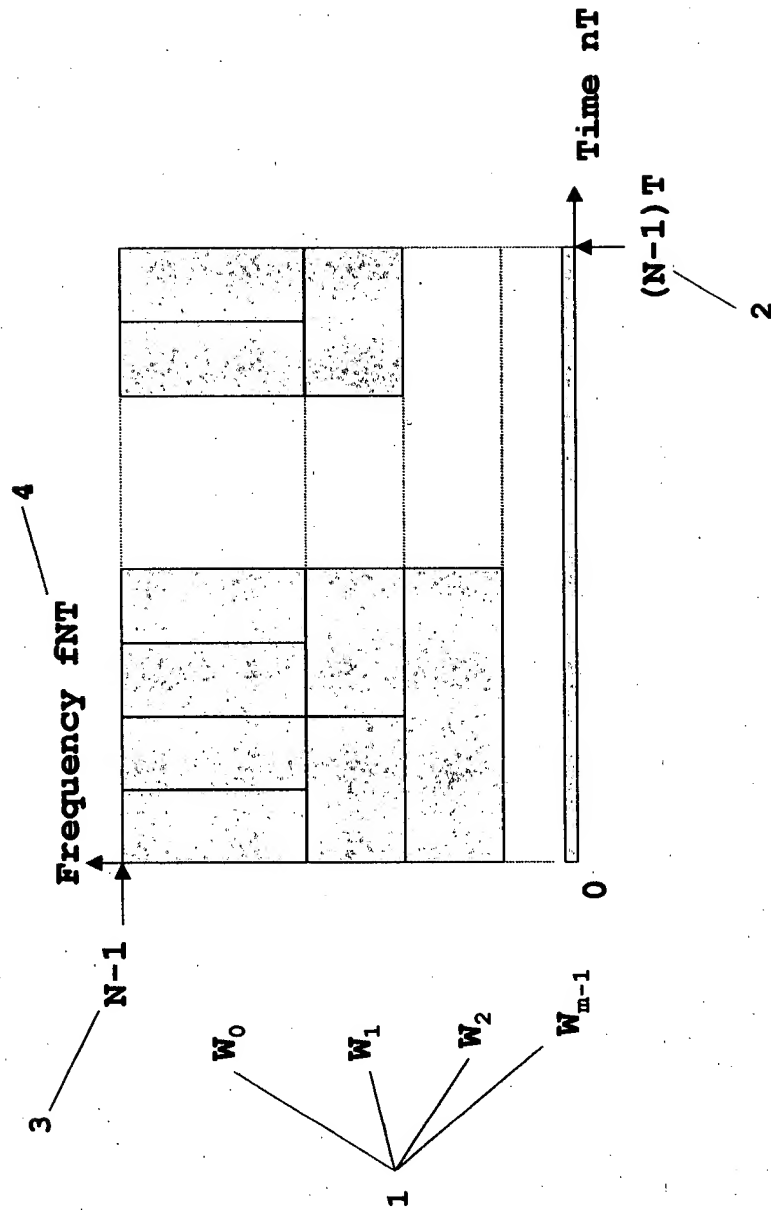
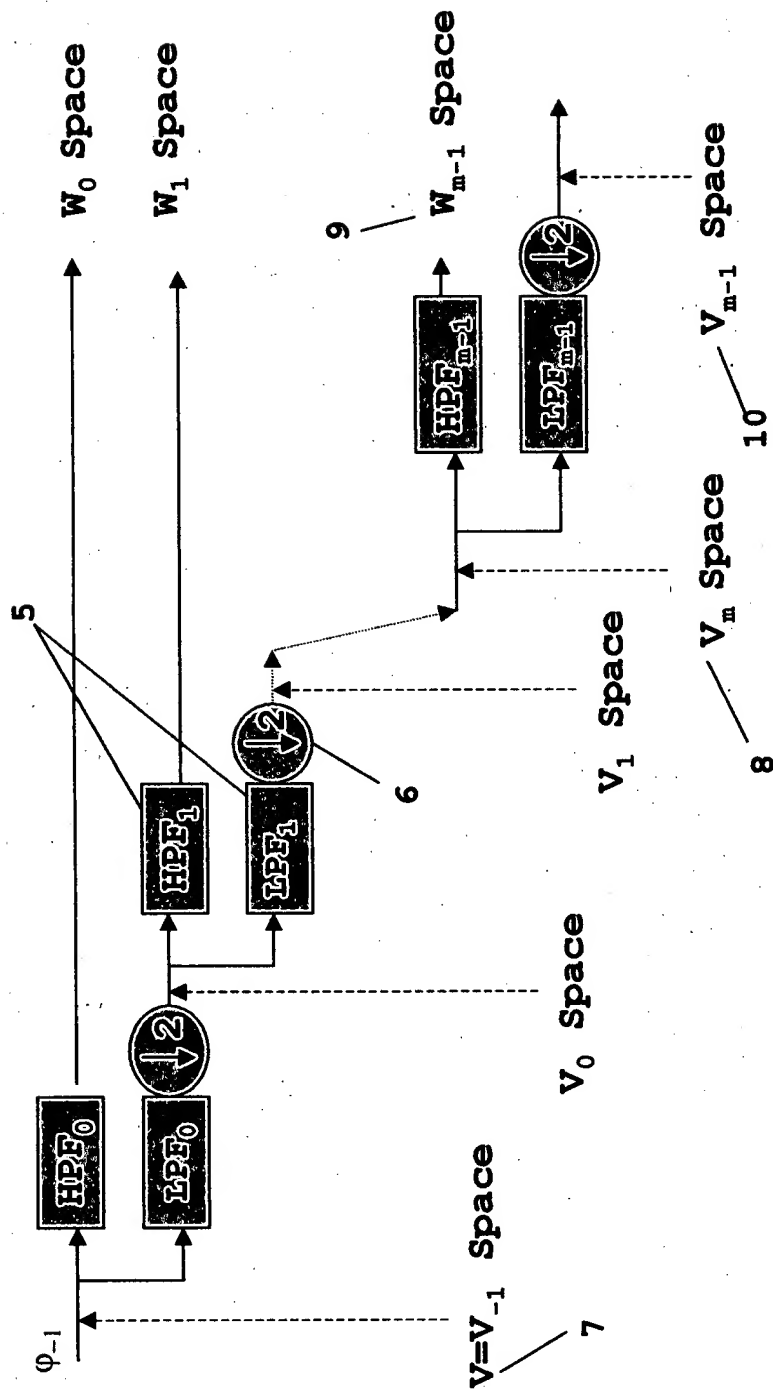


FIG. 2 Wavelet Iterated Filter Bank for Tiling t-f  
Space in FIG. 1



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FIG. 3 PSD Requirements for Communications

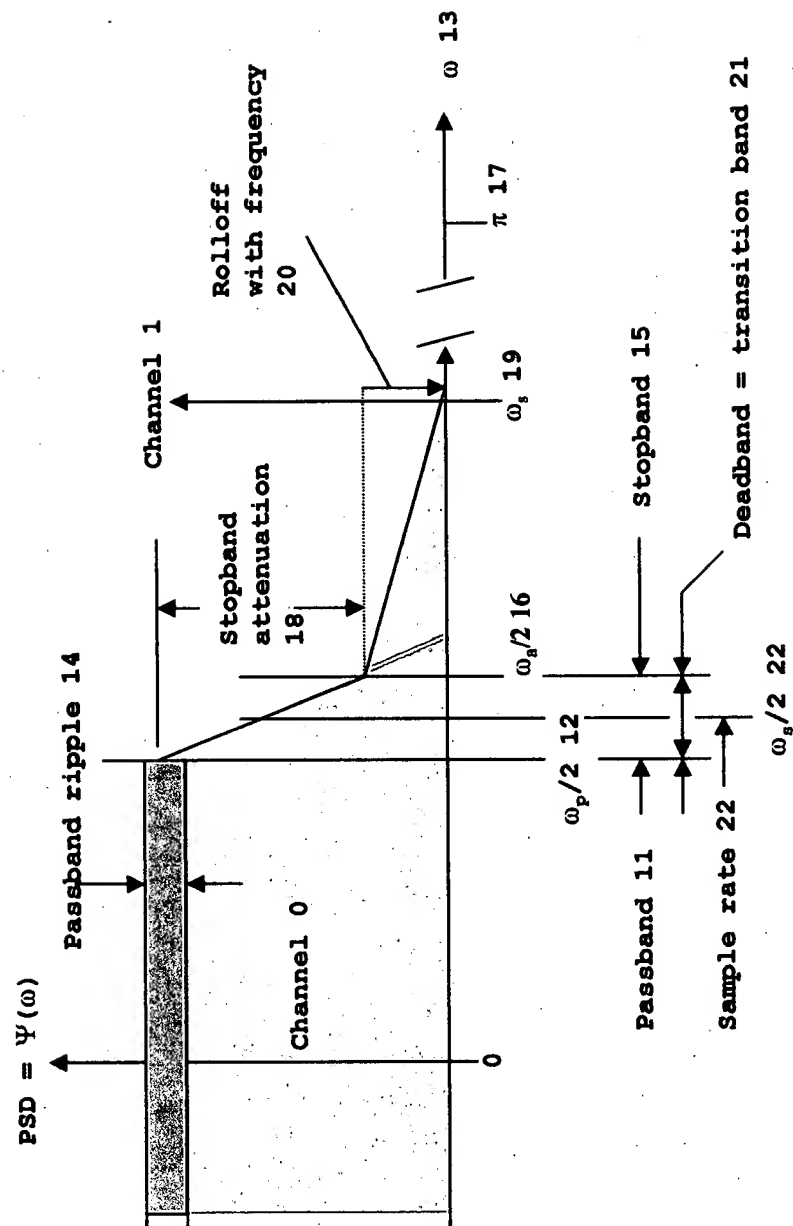


FIG. 4 LS Metrics and Cost Function

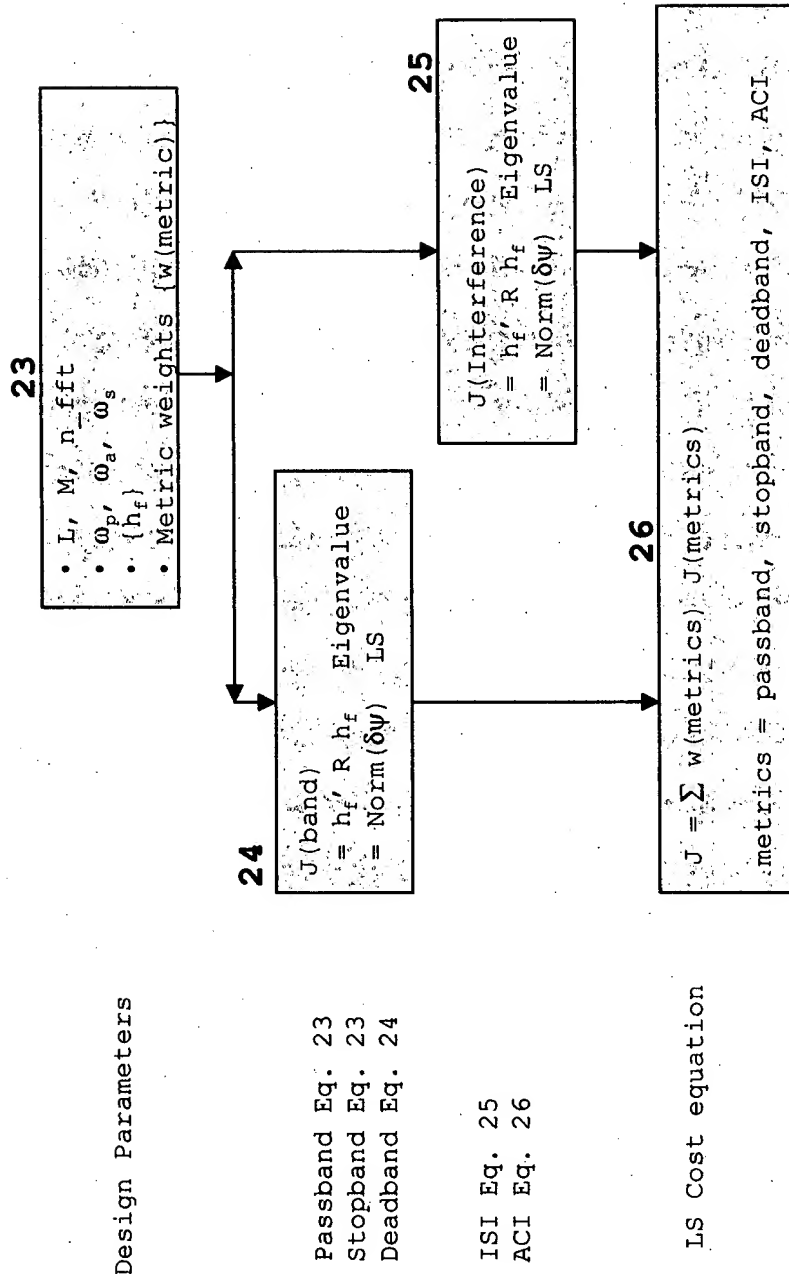


FIG. 5 LS Recursive Solution Algorithm

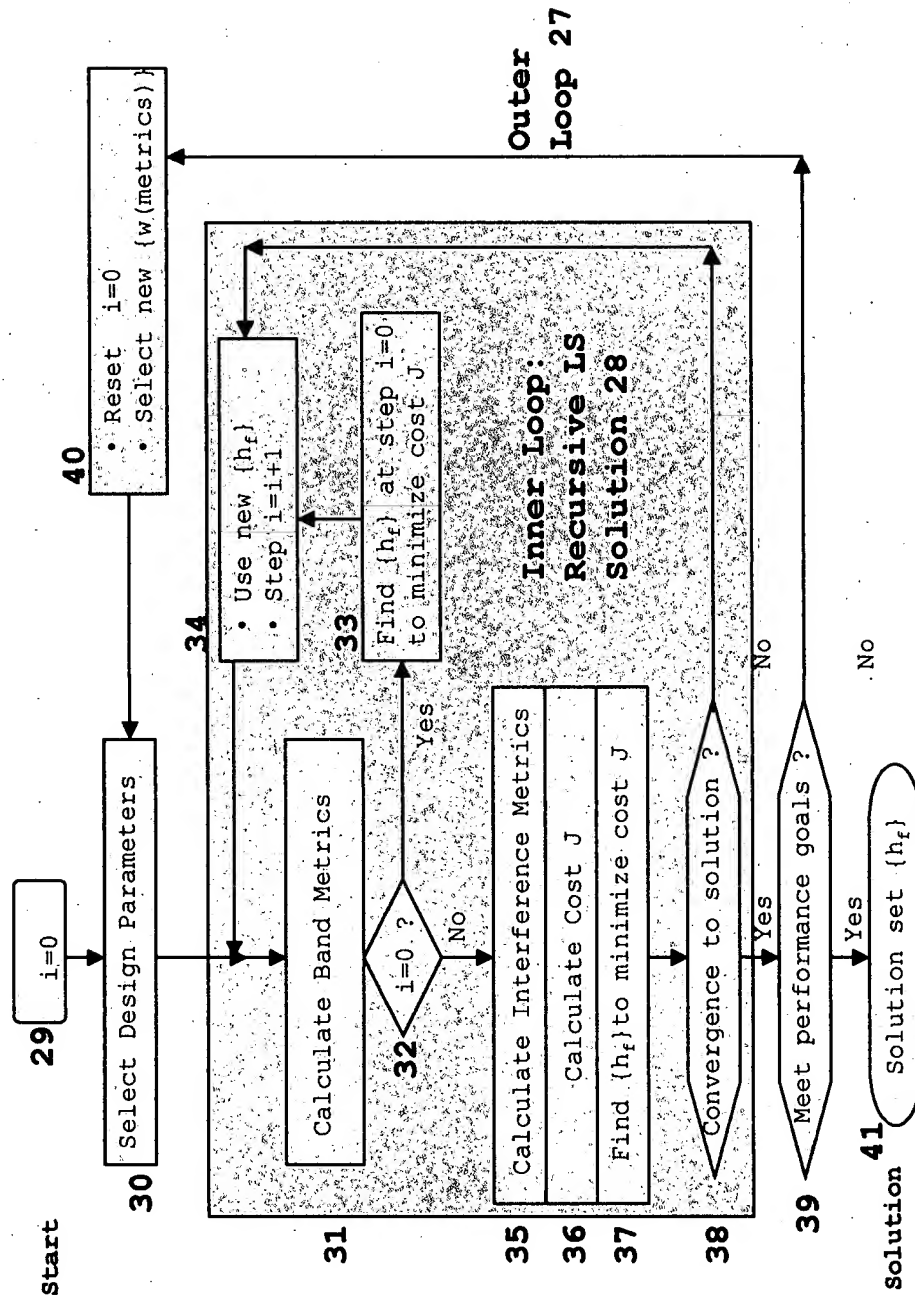


FIG. 5 Mother Wavelet: Eigenvalue Algorithm

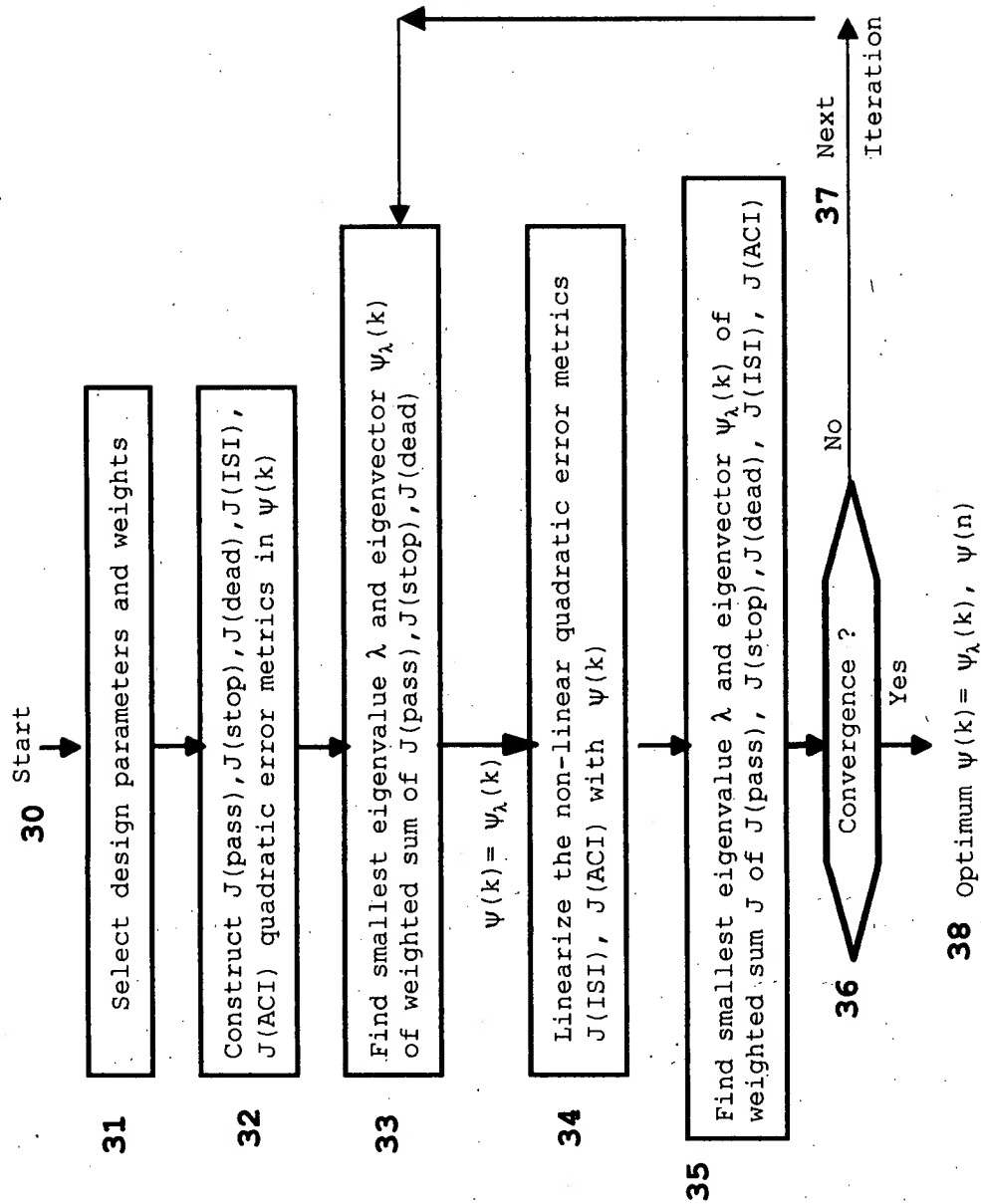
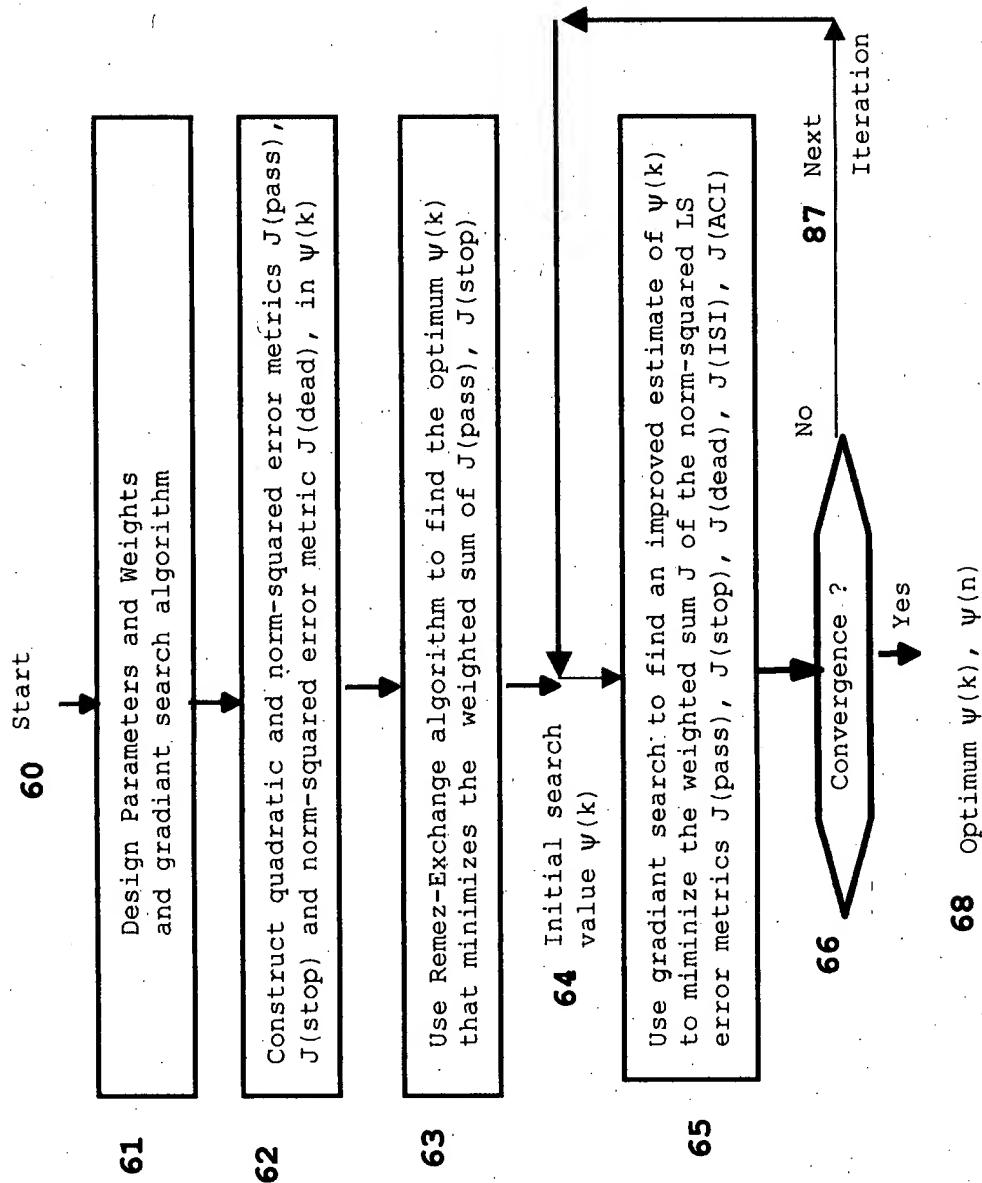


FIG. 6 Mother Wavelet: Gradient Search Algorithm



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FIG. 8 PSD for New Waveform and Square-Root Raised-Cosine

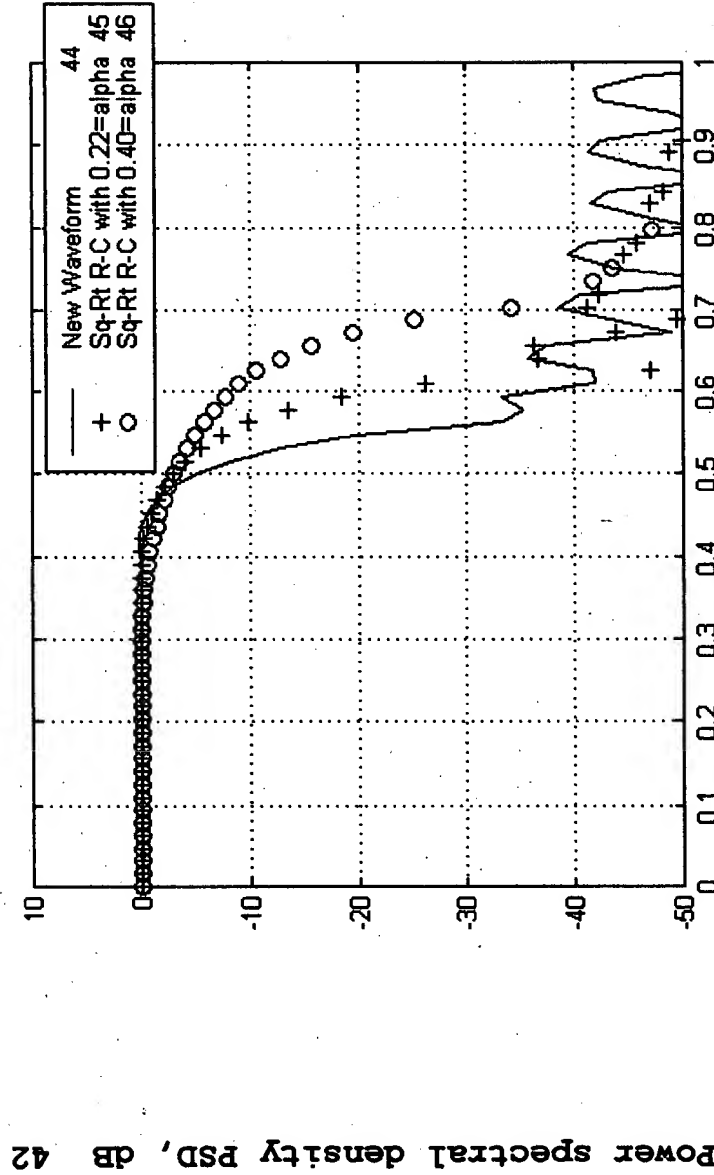
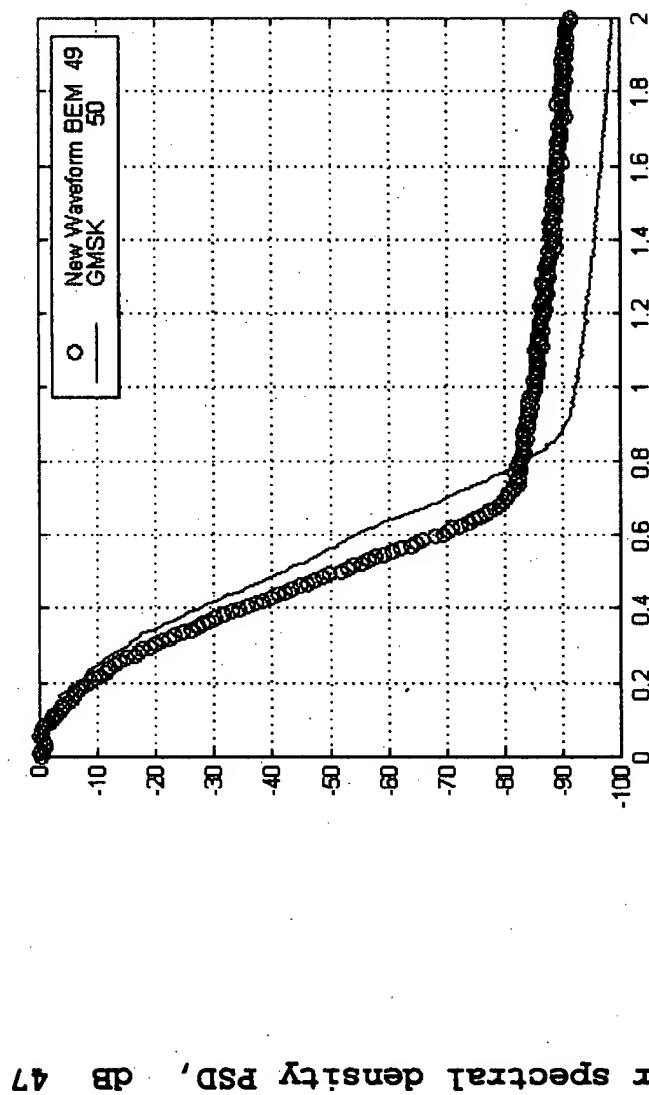


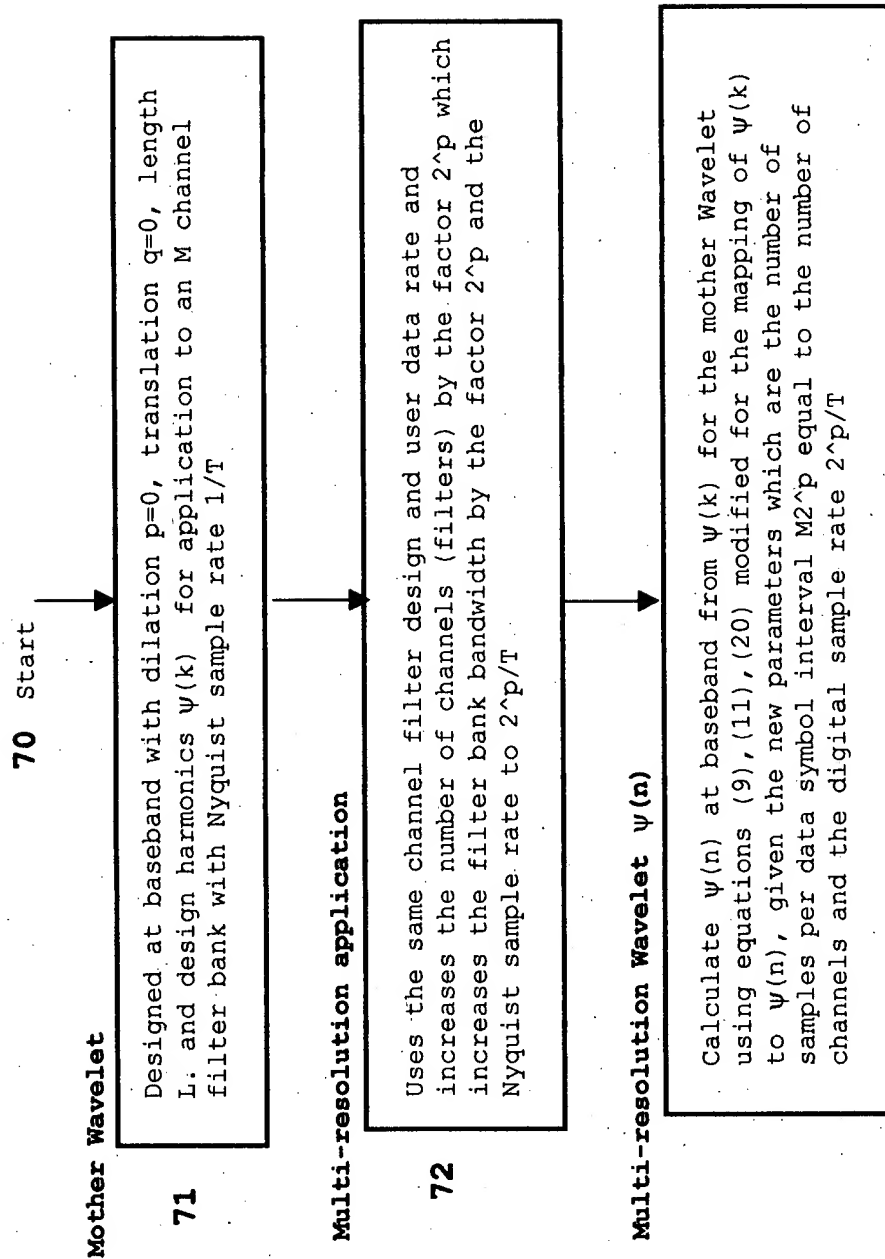


FIG. 9 PSD for New Waveform BEM and GMSK



Normalized frequency, bit rate 48

**FIG. 7 Mother Wavelet: Multi-Resolution Algorithm**



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**FIG. 10 Radar Ambiguity Functions of New Waveform  
and Unweighted Chirp Waveform**

New Wavelet Ambiguity Function 51

Unweighted Chirp Ambiguity Function 52

